1. (original) A process for the preparation of a heteroaryl acetamide from a heteroaryl  $\alpha$ -hydroxyacetamide, the process comprising directly hydrogenating the heteroaryl  $\alpha$ -hydroxyacetamide in the presence of a strong acid, a halide and a catalyst, the heteroaryl  $\alpha$ -hydroxyacetamide having the structure of Formula 1 and the heteroaryl acetamide having the structure of Formula 1A:

wherein

Z is O,  $NR_{20}$  or  $CR_{21}$ ;

 $X_1$  and  $X_2$  are independently selected from the group consisting of hydrogen, halogen,  $C_{1-4}$  alkoxy,  $C_{1-6}$  alkyl, -CF<sub>3</sub> and CH<sub>3</sub>SO<sub>2</sub>-;

R<sub>1</sub> and R<sub>2</sub> are independently hydrogen or hydrocarbyl;

 $R_{10}$  is hydrogen, halogen,  $C_{1-4}$  alkyl, or a member of a fused ring wherein the fused ring is (i) a substituted or unsubstituted, saturated or unsaturated, five or six-membered, heterocyclic or carbocyclic ring fused to the A ring comprising  $R_{10}$ , the carbon atom to which  $R_{10}$  is attached,  $R_{20}$ , and the nitrogen atom to which  $R_{20}$  is attached, or (ii) a six-membered, aromatic, carbocyclic ring fused to the A ring comprising  $R_{10}$ ,  $R_{11}$ , and the carbon atoms to which  $R_{10}$  and  $R_{11}$  are attached, optionally substituted with Y at a substitutable position thereof;

 $R_{11}$  is hydrogen, halogen,  $C_{1-4}$  alkyl, or a member of a fused ring wherein the fused ring is (i) a six-membered, aromatic, carbocyclic ring fused to the A ring comprising  $R_{10}$ ,  $R_{11}$ , and the carbon atoms to which  $R_{10}$  and  $R_{11}$  are attached, optionally substituted with Y at a substitutable position thereof, or (ii) a six-membered, aromatic,

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carbocyclic ring fused to the A ring comprising  $R_{11}$ ,  $R_{12}$ , and the carbon atoms to which  $R_{11}$  and  $R_{12}$  are attached, optionally substituted with Y at a substitutable position thereof;

 $R_{12}$ , if present, is hydrogen, halogen,  $C_{1-4}$  alkyl, or a member of a fused ring wherein the fused ring is (i) a six-membered, aromatic, carbocyclic ring fused to the A ring comprising  $R_{11}$ ,  $R_{12}$ , and the carbon atoms to which  $R_{11}$  and  $R_{12}$  are attached, optionally substituted with Y at a substitutable position thereof;

 $R_{20}$  is  $C_{1-5}$  alkyl or a member of a fused ring wherein the fused ring is a substituted or unsubstituted, saturated or unsaturated, five or six-membered, heterocyclic or carbocyclic ring fused to the A ring comprising  $R_{10}$ , the carbon atom to which  $R_{10}$  is attached,  $R_{20}$ , and the nitrogen atom to which  $R_{20}$  is attached;

R<sub>21</sub> is hydrogen, halogen or C<sub>1-4</sub> alkyl;

n is 0 or 1;

each Y is independently hydrogen, halogen or  $C_{1-4}$  alkyl; and when Z is  $CR_{21}$ , the A ring is aromatic.

## 2.-5. (canceled)

6. (original) The process of claim 1 wherein  $X_1$  and  $X_2$  are independently selected from the group consisting of hydrogen, halogen,  $C_{1-4}$  alkoxy and  $C_{1-6}$  alkyl,  $R_1$  and  $R_2$  are independently hydrogen or  $C_{1-5}$  alkyl and Y is hydrogen, halogen or  $C_{1-4}$  alkyl.

7. (original) A process for the preparation of an imidazopyridine acetamide from an imidazopyridine  $\alpha$ -hydroxyacetamide, the process comprising directly hydrogenating the imidazopyridine  $\alpha$ -hydroxyacetamide in the presence of a strong acid, a halide and a catalyst, wherein the starting imidazopyridine  $\alpha$ -hydroxyacetamide has the structure of Formula 6 and the product imidazopyridine acetamide has the structure of Formula 6A

$$X_1$$
 $X_2$ 
 $X_1$ 
 $X_2$ 
 $X_2$ 
 $X_3$ 
 $X_4$ 
 $X_4$ 
 $X_2$ 
 $X_4$ 
 $X_4$ 
 $X_4$ 
 $X_5$ 
 $X_7$ 
 $X_8$ 
 $X_8$ 

wherein

Y is hydrogen, halogen or C<sub>1-4</sub> alkyl;

 $X_1$  and  $X_2$  are independently selected from the group consisting of hydrogen, halogen,  $C_{1-4}$  alkoxy,  $C_{1-6}$  alkyl,  $CF_3$  and  $CH_3SO_2$ ; and

 $R_1$  and  $R_2$  are independently hydrogen or  $C_{1-5}$  alkyl.

- 8.-10. (canceled)
- 11. (currently amended) The process of claim  $\frac{11}{7}$  wherein Y is methyl,  $X_1$  and  $X_2$  are independently hydrogen or methyl and  $R_1$  and  $R_2$  are methyl.
  - 12.-13. (canceled)
- 14. (currently amended) The process of claim 43 7 wherein the strong acid is sulfuric acid.

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15.-16. (canceled)

- 17. (currently amended) The process of claim  $45 \frac{7}{2}$  wherein the halide is a bromide ion.
  - 18.-26. (canceled)
- 27. (currently amended) The process of claim  $\frac{26}{7}$  wherein the catalyst is a palladium catalyst.
  - 28.-29. (canceled)
- 30. (currently amended) The process of claim 29 27 wherein the catalyst is palladium on barium sulfate.
  - 31.-34. (canceled)
- 35. (original) A process for the preparation of an imidazopyridine acetamide from an imidazopyridine  $\alpha$ -hydroxyacetamide, the process comprising directly hydrogenating an imidazopyridine  $\alpha$ -hydroxyacetamide in the presence of hydrogen gas, a strong acid or mixture of strong acids with a pKa of about -9 or less, a chloride or bromide ion and a palladium catalyst, wherein the imidazopyridine  $\alpha$ -hydroxyacetamide has the structure of Formula 7 and the imidazopyridine acetamide product has the structure of Formula 7A.

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## wherein

Y is C<sub>1-4</sub> alkyl;

X<sub>1</sub> is C<sub>1-4</sub> alkyl; and

 $R_1$  and  $R_2$  are independently hydrogen or  $C_{1-5}$  alkyl.

- 36. (original) The process of claim 35 wherein Y,  $X_1$ ,  $R_1$  and  $R_2$  are methyl.
- 37. (original) The process of claim 35 wherein the bromide or chloride ion is a bromide ion.
  - 38.-40. (canceled)
- 41. (currently amended) The process of claim 40 <u>35</u> wherein the palladium catalyst is palladium on barium sulfate.
- 42. (original) The process of claim 35 wherein the imidazopyridine  $\alpha$ -hydroxyacetamide, the strong acid, the chloride or bromide ion and the palladium catalyst is dissolved in a solvent of methanol, ethanol, n-propanol, formic acid, acetic acid, ethanoic acid or propionic acid.
  - 43. (canceled)
- 44. (currently amended) The process of claim 43 <u>42</u> wherein the solvent is acetic acid.
  - 45.-46. (canceled)
- 47. (currently amended) The process of claim 45 <u>35</u> wherein the reaction temperature is about 70°C to about 75°C.

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48.-49. (canceled)

50. (currently amended) The process of claim 49 <u>35</u> wherein the reaction pressure is about 2.0 atmospheres to about 2.8 atmospheres.

- 51. (original) The process of claim 36 wherein the strong acid is sulfuric acid, the bromide or chloride ion is bromide ion and the catalyst is palladium on barium sulfate.
- 52. (new) The process of claim 35 wherein the strong acid is sulfuric acid, the bromide or chloride ion is bromide ion and the catalyst is palladium on barium sulfate.
- 53. (new) The process of claim 52 wherein the reaction temperature is about 70°C to about 75°C and the reaction pressure is about 2.0 atmospheres to about 2.8 atmospheres.